

What is claimed is:

1. A current-collecting structure in a fuel cell system, comprising:
a plurality of conductive separators;
a plurality of current-collecting plates pressed toward said conductive separators;
a plurality of good conductors dispersed between said conductive separators and said current-collecting plates, and deformed under the pressing to come into close contact with said conductive separators and said current-collecting plates; and,
a conductive binder that fills vacant spaces among said good conductors, said conductive separators, and said current-collecting plates.
2. A current-collecting structure as claimed in claim 1, wherein said plurality of current-collecting plates are pressed inwardly toward said conductive separators.
3. A current-collecting structure as claimed in claim 1, wherein said plurality of conductive separators are each formed of graphitized carbon.
4. A current-collecting structure as claimed in claim 3, wherein said plurality of conductive separators are each of a same shape.
5. A current-collecting structure as claimed in claim 1, wherein each of said plurality of good conductors is formed of a carbon material.
6. A current-collecting structure as claimed in claim 5, wherein each of said plurality of good conductors is formed of graphite grains.
7. A current-collecting structure as claimed in claim 1, wherein said plurality of good conductors and said conductive binder are mixed together.

8. A solid polymer fuel cell system, comprising a prismatic cell stack formed of a plurality of cells, each of the cells comprising:

a plurality of conductive separators;

a plurality of current-collecting plates pressed toward said conductive separators;

a plurality of good conductors dispersed between said conductive separators and said current-collecting plates, and deformed under the pressing to come into close contact with said conductive separators and said current-collecting plates; and,

a conductive binder that fills vacant spaces among said good conductors, said conductive separators, and said current-collecting plates.